

MATERIAL SAFETY DATA SHEET

For chemicals, coatings and related materials

DATE :	SUPERSEDES	PREPARED BY:
July 13, 1995	September 9, 1994	Mark Horton, (612) 496-6027
Manufacturer		
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Distributor		
NAME: ADDRESS: ADDRESS: ADDRESS: ADDRESS: PHONE:		

Section I - Product	
NUMBER: 73-860 NAME: Tub and Shower Surround Adhesive CLASS: Adhesive CAS NUMBER: none - mix	H M I S Hazard Codes Health: 2 Moderate Flammability: 3 Serious Reactivity: 0 Minimal Personal Protective Equipment: G

Section II - Hazardous Ingredients				
Ingredient: Material Description	Percent by Weight	C.A.S. Registry Number	LEL	Vapor Pressure [mm Hg at 20 deg C]
Calcium carbonate	35-25	471-34-1	None	None
Titanium dioxide	1-5	13463-67-7	None	None
Hexane*	25-35	110-54-3	1	150
Silicon dioxide, quartz	1-1	14808-60-7	None	None
Kaolin clay	10-20	1332-58-7	None	None
* Reportable under SARA Title III, Section 313				

Section III - Physical Data			
Boiling Range:	130-150 deg F	Freezing Point:	no data
Vapor Pressure:	> 100 mm Hg @ 77 deg F	Vapor Density:	Heavier than air
Specific Gravity:	1.18	H2O Soluble:	slight [<0.1 %]
Evaporation Rate(relative to n-butyl acetate)	Slower	% Volatile by Volume:	40-45
pH:	Not applicable	Odor Threshold:	no data
Appearance and Odor:	Dark semi-paste	Strong solvent odor	

Section IV - Fire and Explosion Hazard Data			
FLASH POINT: (Method Used)	<0 deg F [TCC]	EXPLOSIVE LIMITS: LEL (%V in air) UEL	1.1 13

AUTOIGNITION TEMP:	no data	METHOD:	N/A
OSHA FLAMMABILITY CLASSIFICATION	Flammable liquid, Class I B		
EXTINGUISHING MEDIA:	Water Spray (Fog), Foam, Dry Chemical or Carbon Dioxide.		
SPECIAL FIRE FIGHTING PROCEDURES	Fire Fighters must wear self contained breathing apparatus or air masks.	Containers exposed to fire should be kept cool with water spray.	Water stream directed into fire may causing frothing and subsequent spread of fire.
UNUSUAL FIRE AND EXPLOSION HAZARDS:	Closed containers may explode due to build up of pressure when exposed to heat.	Thermal decomposition or combustion of product may generate irritating and/or toxic gases.	Vapor is heavier than air. Vapor can travel along ground or floor and be ignited at locations distant from the source.

Section V - Toxicological Information

Ingredient Material Description	PEL [mg/m3]	TLV STEL [mg/m3]	TLV[twa]		LD50 [mg/kg]		LC50 [ppm] Rat INHAL
			mg/m3	ppm	RAT [oral]	RABBIT [dermal]	
Calcium carbonate	15	N/A	10	N/A	6450	N/A	N/A
Titanium dioxide	15	N/A	10	N/A	>7500	N/A	N/A
Silicon dioxide	.1**	N/A	.1**	N/A	N/A	N/A	N/A
Hexane	400	Not listed	Not listed	400	No data	No data	No data
Kaolin clay	10* 5**	Not listed	10*	Not listed	N/A	N/A	N/A
			* Total dust ** Respirable dust				

Section VI - Health Hazard Data and Emergency/first Aid Procedures

THRESHOLD LIMIT VALUES: See Section V	
ACUTE OVEREXPOSURE INFORMATION	
EYES:	Moderate irritant. May cause tearing, reddening of the eyes and reversible corneal injury.
SKIN:	Moderate irritant. May cause dermatitis and allergic responses.
INHALATION:	May cause irritation of respiratory tract. May cause intoxication and central nervous system depression.
INGESTION:	May cause irritation of nose, mouth, and throat if swallowed. May cause nausea, abdominal pain, and collapse.
NOTE: Preexisting respiratory or skin condition(s) may be aggravated by exposure.	
CHRONIC OVEREXPOSURE INFORMATION:	
1) This product contains N-hexane. Individuals exposed to N-hexane in the 1000-1500 ppm range may develop peripheral neuropathy.	
2) This product contains solvents [acetone, hexane, and toluene]. Reports associate repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Reports also indicate that solvents cause liver damage, kidney damage, and mucous membrane irritation. Be warned that intentional misuse of this product by deliberately inhaling the vapors and/or the contents [a process often called "sniffing"] may be harmful or fatal.	
3) This product does not contain dust as produced and does not generate dust in normal use. Dust generated by abnormal activities, such as sanding or grinding, could contain a trace amount of free, respirable silicon dioxide [quartz]. NTP and IARC have listed free respirable silicon dioxide [quartz] as a suspect human carcinogen. Prolonged and/or repeated overexposure to free respirable silica may cause silicosis or other delayed and serious lung injury. Product dust could also contain particles of titanium dioxide and/or calcium carbonate. Chronic overexposure to dusts from these substances may cause delayed and/or serious lung injury.	
MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Any pre-existing respiratory or skin condition.	
EMERGENCY AND FIRST AID PROCEDURES:	
EYES:	Flush the eyes with plenty of water for at least 15 minutes. If necessary, gently hold the eyelids open during the flush. Obtain immediate medical attention.
SKIN:	Remove contaminated clothing and shoes. Wash affected area(s) thoroughly with soap and water. If symptom persist, get medical attention.
INHALATION:	Move the victim into fresh air. If the victim has difficulty breathing, administer oxygen. Administer artificial respiration if the victim is not breathing. Obtain immediate medical attention.
INGESTION:	Obtain immediate medical attention. Do not induce vomiting. Should vomiting occur, be sure to keep victim's head below hips to

Section VI - Health Hazard Data and Emergency/first Aid Procedures

avoid aspiration of vomitus into the lungs.

Section VII - Reactivity Data

STABILITY: Stable

STABILITY CONDITIONS TO AVOID: None known

INCOMPATIBILITY (MATERIALS TO AVOID CONTACT WITH): Strong acids and bases

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of carbon, other acrid/toxic fumes.

HAZARDOUS POLYMERIZATION: None.

Section VIII - Spill or Leak Procedures

STEPS FOR MATERIAL SPILLAGE:

Ventilate the area and remove all sources of ignition. Evacuate unnecessary personnel. Wipe up small spills with rags or towels. Put spent rags or towels in loosely covered containers in a well-ventilated area. Large spills should be handled carefully. Put on respiratory protection. Dike or impound spilled liquid. Cover the spill with absorbent compound [e.g., vermiculite, clay, or sand]. Use non-sparking tools to sweep or shovel into containers. Cover loosely and remove to a well-ventilated waste area. Repeat sorbent/sweep cycle until the spill has dried up. Rinse the spill area thoroughly with water. Flush the rinsings to the sanitary sewer or soak them up with absorbent material. Do not discharge undiluted product to the sanitary sewer. Do not discharge the product or cleanup wastes to lakes, streams, ponds, or sewer. Avoid contact with eyes and skin.

WASTE DISPOSAL METHODS:

Review all local, state, and federal regulations concerning health and pollution for appropriate disposal procedures. Do not incinerate closed containers.

Section IX - Special Protection Information

RESPIRATORY PROTECTION: Wear NIOSH/MSHA approved respiratory protection when the product is mixed or applied in a poorly ventilated area or if workplace levels of ingredients exceed the TLV. Follow applicable federal, state, and local regulations

VENTILATION: Use local exhaust [e.g., open windows, fans] as needed to keep vapor/dust levels below recommended limits.

PROTECTIVE EQUIPMENT: Wear gloves [Natural rubber, supported PVA, neoprene, nitrile], eye goggles, and clean protective clothing to cover arms and legs and keep exposure to a minimum.

Section X - Special Precautions

HANDLING AND STORAGE PRECAUTIONS

DO NOT STORE NEAR FLAMES, SPARKS, OR OTHER SOURCES OF IGNITION

FOR PROFESSIONAL USE ONLY

DO NOT TAKE INTERNALLY

AVOID CONTACT WITH EYES, CLOTHING, AND SKIN

KEEP CONTAINER CLOSED WHEN NOT IN USE

KEEP OUT OF REACH OF CHILDREN

USE ONLY WITH ADEQUATE VENTILATION

Section XI - Regulatory Data

VOC CONTENT: 353.1 g/L or 3 lbs/gal less water and exempt solvents.

CALIFORNIA PROPOSITION 65:

This product contains materials listed by the State of California as known to cause cancer, birth defects of other reproductive harm.

TRANSPORTATION

	DOT	UN
HAZARD CLASS :	Flammable liquid	Flammable liquid
UN/NA NUMBER :	UN1133	UN1133
SHIPPING NAME:	Adhesives	Adhesives
PLACARD AT	N/A	N/A
CLASS NUMBER :	3	AIR: 3 MARINE: 3
SUBSID. RISK :	N/A	AIR: N/A MARINE: N/A
PACKING GROUP:	III	AIR: III MARINE: III

REPORTING

CERCLA REPORTABLE QUANTITY: 11,904 lbs AS WASTE: 100 lbs

SARA SECTION 304 EMERGENCY RESPONSE REPORTABLE QUANTITY: 11,904 lbs

SARA SECTION 311/312 INVENTORY REPORTING (Y/N): Y
SARA SECTION 311/312 HAZARD CLASS(ES): Acute and chronic health hazard. Fire hazard.
SARA SECTION 313 ROUTINE RELEASE REPORTING CHEMICALS: N-hexane 30%
COMPONENTS ON TSCA INVENTORY (Y/N): Y
DISPOSAL
EPA RCRA WASTE CLASS: Ignitable
EPA RCRA WASTE NUMBER: D001
CALIFORNIA LIST LAND BAN (Y/N): Y

ABBREVIATIONS USED:

N/A = Information or data Not Available, NTP = National Toxicology Program,
IARC = International Agency for Research on Cancer, NIOSH = National Institute of Occupational Safety and Health,
ACGIH = American Conference of Governmental Industrial Hygienists, OSHA = Occupational Safety and Health Administration,
PEL = Permissible Exposure Limit (8-hr. TWA) (OSHA), TLV = Threshold Limit Value (8-hr. TWA) (ACGIH),
STEL = Short Term Exposure Limit (15-min TWA) (OSHA), C = Ceiling Value.

DISCLAIMER

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REASON FOR REVISION: Complete Review

Revision Required: Y